

<110> Rosen et al.

<120> 28 Human Secreted Proteins

<130> PZ003P4

<140> 09/852,659

<141> 2001-05-11

<150> 60/265,583

<151> 2001-02-02

<150> 09/152,060

<151> 1998-09-11

<150> PCT/US98/04858

<151> 1998-03-12

<150> 60/040,762

<151> 1997-03-14

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<151> 1997-09-05

<150> 60/048,970

<151> 1997-06-06

<150> 60/068,368

<151> 1997-12-19

<160> 121

<170> PatentIn Ver. 2.0

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 aaaaaaaaaa aaaaaaaag 1699

<210> 20
 <211> 736
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (701)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (728)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (733)
 <223> n equals a,t,g, or c

<400> 20
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 ttgttgaggg ttcttttggg cttcgtgagt tttctcaaata ccgatatgat gctgtgaaga 240

gtaaaatgga	tcctgagctt	gaaaaaaaaac	tgaaagagaa	taaaatatct	ttagagtcgg	300
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cttgggaaga	tcctgacctc	ctccaaggaa	gaaatccaga	aagccttaag	actaagacaa	420
cttgactctg	ctgattcttt	tttccttttt	ttttttttta	aataaaaaata	ctattaactg	480
gacttcctaa	tatatacttc	tatcaagtgg	aaaggaaatt	ccaggcccat	ggaaacttgg	540
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cccagctatt	ccatctgtgg	atgaaagtaa	caatgttggc	cacgtatatt	ttacacctcg	660
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ggtaattngc	tgntgc					736

<210> 21
 <211> 1688
 <212> DNA
 <213> Homo sapiens

<400> 21						
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gaaaacac						1688

<210> 22
 <211> 2045
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2040)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2041)

<223> n equals a,t,g, or c

<400> 22

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ctgctcggcg	tctgggtatct	gatcatcaat	gctgtggtac	tgttgatttt	attgagtgcc	300
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atggatgatg	ccaacatgtg	cattgccatt	gcgatttctc	ttctcatgat	cctgatatgt	420
gctatggcta	cttacggagc	gtacaagcaa	cgcgcagctg	ggatcatccc	attcttctgt	480
taccagatct	ttgactttgc	cctgaacatg	ttgggtgcaa	tactgtgct	tatttatcca	540
aactccattc	aggaatacat	acggcaactg	cctcctaatt	ttccctacag	agatgatgtc	600
atgtgcagtg	aatcctacct	gtttggtcct	tattattctt	ctgtttatta	gcattatctt	660
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gctgtaaatt	aagtygtttg	caattaaaac	aagggttgcc	cacatccaaa	aaaaaaaaaa	1980
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2040
naaaa						2045

<210> 23

<211> 1101

<212> DNA

<213> Homo sapiens

<400> 23

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<210> 24
 <211> 1659
 <212> DNA
 <213> Homo sapiens

<400> 24						
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<210> 25
 <211> 1329
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (520)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1140)
 <223> n equals a,t,g, or c

<400> 25						
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acatcatcat	cttctctact	ggcctccctg	ccaacctcct	ggccctgcgg	gcctttgtgg	180

ggcggatccg	ccagccccag	cctgcacctg	tgacatcct	cctgctgagc	ctgacgtgg	240
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<210> 26
 <211> 700
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (81)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (659)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (692)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (700)
 <223> n equals a,t,g, or c

<400> 26						
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<210> 27
 <211> 832
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (821)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (825)
 <223> n equals a,t,g, or c

<400> 27

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agttcctgta	gtgtcctaca	ttaaaaatat	aatgtctctc	tctattcctc	aacaataaag	780
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<210> 28
 <211> 2361
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2361)
 <223> n equals a,t,g, or c

<400> 28

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tcggcgtaac	tatcgctga	caggcattta	aatcaaacgg	tattgagatg	gattgggtta	180
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tggttgcagc	aaagaggaaa	tagttcagtt	ctttcaaggg	ttggaaatcg	tgccaatggg	300
ataacattga	cgatggacta	ccaggggaga	agcacagggg	aggccttcgt	gcagtttgct	360
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<211> 879

<212> DNA

<213> Homo sapiens

<400> 29

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<211> 1732

<212> DNA

<213> Homo sapiens

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<210> 31

<211> 3259

<212> DNA

<213> Homo sapiens

<400> 31

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 <213> Homo sapiens

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 <212> DNA
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 <222> (26)
 <223> n equals a,t,g, or c

<220>
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230

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 <211> 1022
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 <212> DNA
 <213> Homo sapiens

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 <222> (420)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (486)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (530)

<223> n equals a,t,g, or c

<400> 37

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ccggtaccca	attcgcccta	tagtgagtcg	tattacaatt	cactgggccg	tcgtttttaca	480
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<210> 38

<211> 1752

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (356)

<223> n equals a,t,g, or c

<400> 38

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 <211> 1907
 <212> DNA
 <213> Homo sapiens

<400> 39						
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 <211> 2350
 <212> DNA
 <213> Homo sapiens

<400> 40						
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 <211> 1114
 <212> DNA
 <213> Homo sapiens

<400> 41

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<210> 42
 <211> 1652
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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<400> 42

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<210> 43
 <211> 1473
 <212> DNA
 <213> Homo sapiens

<400> 43

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gagggggccc	agtgtgcgca	cggtacctgc	tgccaggagt	gcaagggtga	gccggctggt	1440
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<210> 44
 <211> 772
 <212> DNA
 <213> Homo sapiens

<400> 44						
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<210> 45
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (15)
 <223> n equals a,t,g, or c

<400> 45						
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tgatggtttg	gggtgttatg	gccgtggtgg	tggaggcagt	ggaggttact	atgggcaagg	180
cggcatgagt	tggaggtggat	ggcgtgggat	gtactgaaag	caaaaacacc	aacatacaag	240
tcttgacaac	agcatctggt	ctactagact	ttcttacaga	tttaatttct	tttgtatttt	300
aagaacttta	taatgactga	aggaatgtgt	tttcaaaata	ttatttggtg	aagcaacaga	360

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403

<210> 46
<211> 928
<212> DNA
<213> Homo sapiens

<220>
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<222> (49)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (532)
<223> n equals a,t,g, or c

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gtaacagtag tagtcagccg catcctccac ctgggcccc ctgatagtca aggtggccac	780
tgtccctgar ctggagccar agaatctcts agggatccgg agggtcgttt gttgtcctca	840
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<210> 47
<211> 885
<212> DNA
<213> Homo sapiens

<400> 47	
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<210> 48
 <211> 2315
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2264)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2312)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2315)
 <223> n equals a,t,g, or c

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gctcctgctt	cccacagcat
tctagggaaa	ctctctgcgt
aaggctttgg	gatgaatcat
tagtctccac	attatggaat
cttccccctt	ttaccacaca
atgctgtgca	tggcgtgaat
acttaagcaa	aataagcctg
caataactgtc	tgtcttgccct
gactaaatct	tcaagctctg
ttctccttcg	gtgaagatct
aggaagctcc	tcaaacatcc
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cccgcagaag	tagcctttat
gcagcatttt	ccgtctattt
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tgcccggagg	tttgggtgcc
cacttgctca	tgcttggtgt
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cactgccacc	tctgggacgg
cacacacaca	cacacacaca
aattgactgc	atgttgagttt
cagtccagct	gcagcttgag
aacagtggcc	cttttcagat
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tgacattaca	agtacatagc
aggactcgcc	atgagaatag
tggtattgat	gacaatttgc
cccgggtgact	tctggcccca
gatcatagtg	agagcgggtg
ccagaaatac	gtgagaagaa
ctacaactgc	ctacacaaga
ccctatgtcc	ggcctcttta
tgacttaaca	cagctcccca
cacctggagg	caggagtata
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<210> 49

<211> 3175

<212> DNA

<213> Homo sapiens

<400> 49

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<210> 50

<211> 783

<212> DNA

<213> Homo sapiens

<400> 50

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<210> 51

<211> 3030

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2388)

<223> n equals a,t,g, or c

<400> 51

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tggaggtggt	gaacgacggc	gccgagtcgg	cgcggttcaa	gcagctcttc	cggacttggt	1380
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tggacgtggg	caagctgcac	acccagccta	agtttagcggc	ccagctcagg	atgggtggacg	1500
acggctcttg	gaaggtggag	gtgtggtgca	tccaggactt	acacaggcag	cccgtggacc	1560
ccaagcgtca	tggacagctg	tgtgcaggca	actgctacct	tgtgctctac	acataccaga	1620
ggctggggccg	tgtccagtac	atcctgtacc	tatggcaggg	ccaccaggcc	actgcggatg	1680
agattgaggc	cctgaacagc	aacgctgagg	aactagatgt	catgtatggt	ggcgtcctag	1740
tacaggagca	tgtgacctag	ggcagcgagc	ccccccactt	cctcgccatc	ttccaggggc	1800
agctggtgat	cttccaggag	agagctgggg	accacggaaa	ggggcagtca	gcatccacca	1860
caaggctttt	ccaagtgcaa	ggcactgaca	gccacaacac	caggaccatg	gaggtgccag	1920
cccgtgcctc	atccctcaac	tccagtgaca	tcttcttgtc	ggtcacagcc	agcgtctgct	1980
acctctggtt	tgggaaaggg	ctgtaatggt	gatcagcgtg	agatggcacg	ggtggtggtc	2040
actgtcattt	ccaggaagaa	tgaggaaacg	gtgctggagg	gtcaggagcc	tccccacttc	2100
tgggaggccc	tgggaggccg	gggcccccta	ccccagcaac	aagaggctcc	ctgaggagggt	2160
ccccagcttc	cagccacgac	tgtttgagtg	ctccagccac	atgggctgcc	tggtcctcgc	2220
agaagtgggg	ttcttcagcc	aggaggacct	ggacaagtat	gacatcatgt	tactggacac	2280
ctggcaggag	atcttctctg	ggcttgggga	agctgcaagt	gagtggaaagg	aggcgggtggc	2340
ctggggccag	gagtacctga	agactcacc	agcaggggagg	agccccgnca	caccatcgt	2400
gctggtcaag	cagggscatg	agcctccac	cttcattgga	tggttcttca	cttgggaccc	2460
ctacaagtgg	actagccacc	catcccacaa	ggaagtgggtg	gatggcagcc	cggcagcagc	2520
atcaaccatc	tctgagataa	cagcagaagt	caacaacttc	cggctatcca	gatggccggg	2580
caatggcagg	gcaggtgccg	tggccctgca	ggccctcaag	ggctcccagg	acagctcaga	2640
gaatgatytg	gtgcgaagcc	ccaagtcggc	tggcagcaga	accagcagct	ccgtcagcag	2700
caccagcgcc	acgatcaacg	ggggcctgcg	ccgggaacaa	ctgatgcacc	aggctgttga	2760
ggacctgcca	gagggcggtg	accctgcccc	cagggagttc	tatctctcag	actctgactt	2820
ccaagatatc	tttgggaaat	ccaaggagga	attctacagc	atggccacgt	ggaggcagcg	2880
gcaggagaaa	aagcagctgg	gcttcttctg	aaccacaagc	ctctcgactg	cccctatccc	2940
ctggacccca	acatacctac	aatgctgggg	aggccctgct	tccactcccc	tcagaggctt	3000
ttggtcatcc	tctgcgtgtc	agtaaaagca				3030

<210> 52

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 52

Met	Glu	His	Ala	Ala	Gly	Leu	Pro	Val	Thr	Arg	His	Pro	Leu	Ala	Leu
1					5					10				15	

Leu	Leu	Ala	Leu	Cys	Pro	Gly	Pro	Phe	Pro	Ala	Leu	Leu	Leu	Pro	Leu
			20					25						30	

Leu Pro Trp Gly Tyr Pro Leu Ala Pro Pro Gly Leu Cys Lys Leu Pro
35 40 45

Gln Gly Ala Pro Leu Pro Cys Ser Ser Xaa Leu Thr Ser
50 55 60

<210> 53
<211> 243
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 53
Met Asp Gln Tyr Cys Ile Leu Gly Arg Ile Gly Glu Gly Ala Xaa Gly
1 5 10 15

Ile Val Phe Lys Ala Lys His Val Glu Thr Gly Glu Ile Val Ala Leu
20 25 30

Lys Lys Val Ala Leu Arg Arg Leu Glu Asp Gly Phe Pro Asn Gln Ala
35 40 45

Leu Arg Glu Ile Lys Ala Leu Gln Glu Met Glu Asp Asn Gln Tyr Val
50 55 60

Val Gln Leu Lys Ala Val Phe Pro His Gly Gly Gly Phe Val Leu Ala
65 70 75 80

Phe Glu Phe Met Leu Ser Asp Leu Ala Glu Val Val Arg His Ala Gln
85 90 95

Arg Pro Leu Ala Gln Ala Gln Val Lys Ser Tyr Leu Gln Met Leu Leu
100 105 110

Lys Gly Val Ala Phe Cys His Ala Asn Asn Ile Val His Arg Asp Leu
115 120 125

Lys Pro Ala Asn Leu Leu Ile Ser Ala Ser Gly Gln Leu Lys Ile Ala
130 135 140

Asp Phe Gly Leu Ala Arg Val Phe Ser Pro Asp Gly Ser Arg Leu Tyr
145 150 155 160

Thr His Gln Val Ala Thr Arg Ser Ser Leu Ser Cys Arg Thr Thr Thr
165 170 175

Arg Ser Pro Leu Arg Ser Arg Cys Pro Cys Pro Trp Arg Xaa Cys Cys
180 185 190

Leu Thr Ser Leu Pro Arg His Trp Ile Cys Trp Val Asn Ser Phe Ser

195		200		205											
Thr	Leu	Leu	Thr	Ser	Ala	Ser	Gln	Leu	Pro	Arg	Leu	Ser	Ser	Ile	Ser
210						215					220				
Thr	Ser	Ser	Gln	Leu	Pro	Cys	Leu	Pro	Ile	His	Leu	Ser	Cys	Arg	Phe
225					230					235					240

Leu Ser Val

<210> 54
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 54
Met Glu Ala Lys Phe Gly Leu Leu Cys Phe Leu Val Ser Thr Pro Trp
1 5 10 15
Ala Glu Leu Leu Ser Leu Leu Leu His Leu Thr Gln Val Pro Phe Pro
20 25 30
Gly Ser Gln Gly Leu Gly Leu Asn Asn Cys Arg Ala Ala Cys His Asp
35 40 45
Leu Ser His Leu Leu Leu Ser His Ser Ala Ile Asn Gln Thr Lys Glu
50 55 60
Phe
65

<210> 55
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 55
Met Leu Ala Arg Lys Ala Glu Arg Gly Ser Met Gly Thr Ala Arg Asp
1 5 10 15
Ser His Ile Leu Leu Val Cys Ser Val Val His Pro Ala Ser Ala Gln
20 25 30
Pro Val Tyr Thr Val
35

<210> 56
 <211> 317
 <212> PRT
 <213> Homo sapiens

<400> 56
Met Leu Ser Phe Lys Leu Leu Leu Leu Ala Val Ala Leu Gly Phe Phe
1 5 10 15
Glu Gly Asp Ala Lys Phe Gly Glu Arg Asn Glu Gly Ser Gly Ala Arg
20 25 30

Arg Arg Arg Cys Leu Asn Gly Asn Pro Pro Lys Arg Leu Lys Arg Arg
 35 40 45
 Asp Arg Arg Met Met Ser Gln Leu Glu Leu Leu Ser Gly Gly Glu Met
 50 55 60
 Leu Cys Gly Gly Phe Tyr Pro Arg Leu Ser Cys Cys Leu Arg Ser Asp
 65 70 75 80
 Ser Pro Gly Leu Gly Arg Leu Glu Asn Lys Ile Phe Ser Val Thr Asn
 85 90 95
 Asn Thr Glu Cys Gly Lys Leu Leu Glu Glu Ile Lys Cys Ala Leu Cys
 100 105 110
 Ser Pro His Ser Gln Ser Leu Phe His Ser Pro Glu Arg Glu Val Leu
 115 120 125
 Glu Arg Asp Leu Val Leu Pro Leu Leu Cys Lys Asp Tyr Cys Lys Glu
 130 135 140
 Phe Phe Tyr Thr Cys Arg Gly His Ile Pro Gly Phe Leu Gln Thr Thr
 145 150 155 160
 Ala Asp Glu Phe Cys Phe Tyr Tyr Ala Arg Lys Asp Gly Gly Leu Cys
 165 170 175
 Phe Pro Asp Phe Pro Arg Lys Gln Val Arg Gly Pro Ala Ser Asn Tyr
 180 185 190
 Leu Asp Gln Met Glu Glu Tyr Asp Lys Val Glu Glu Ile Ser Arg Lys
 195 200 205
 His Lys His Asn Cys Phe Cys Ile Gln Glu Val Val Ser Gly Leu Arg
 210 215 220
 Gln Pro Val Gly Ala Leu His Ser Gly Asp Gly Ser Gln Arg Leu Phe
 225 230 235 240
 Ile Leu Glu Lys Glu Gly Tyr Val Lys Ile Leu Thr Pro Glu Gly Glu
 245 250 255
 Ile Phe Lys Glu Pro Tyr Leu Asp Ile His Lys Leu Val Gln Ser Gly
 260 265 270
 Ile Lys Val Gly Phe Leu Asn Phe Ile Tyr Phe Cys Ala Gly Tyr Val
 275 280 285
 Asn Phe Ile Leu Val Leu Pro Ser Ser Leu Lys Val Phe Leu Cys Asn
 290 295 300
 Lys Arg Lys Asn Leu Ala Gly Glu Asn Lys Gly Ala Thr
 305 310 315

<210> 57
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 57
 Met Ser Trp Gly Ile Trp Lys Gly Leu Asp Leu Phe Pro Leu Ile Lys
 1 5 10 15

Gly Asn Ser Ser Leu Cys Leu Phe Leu Leu Val Val Pro Lys Gly Tyr
 20 25 30

Ser Ser Ser Glu Ile Thr Arg Ala Leu
 35 40

<210> 58
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 58
 Met Ser Leu Pro Cys His Leu Leu Pro Gly Leu Leu Gln Gln Leu Leu
 1 5 10 15

Thr Ser Leu Pro Ala Phe Gln Phe Ser Ala Pro Leu Gln Val Phe Ser
 20 25 30

Leu Asp Gly Leu Ser Leu Pro Ala Pro Lys Leu Leu Thr Ala Ser Leu
 35 40 45

Cys Leu Gln Asp Glu Val Arg Ala Val
 50 55

<210> 59
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 59
 Met Ser Ser Trp Pro Phe Cys Pro Ser Leu Cys Phe Ser Leu Ser Asn
 1 5 10 15

Leu Ile Pro Gly Ser Gly Leu Leu Pro Val Glu Thr Gly Glu Leu Gly
 20 25 30

Leu Leu Ser Ala Ala Tyr Leu Leu Pro Phe Thr Cys Ile Gln Leu Leu
 35 40 45

Gly Leu Gly Pro
 50

<210> 60
 <211> 296
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (281)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 60
 Met Ala Val Leu Ala Pro Leu Ile Ala Leu Val Tyr Ser Val Pro Arg

1	5	10	15
Leu Ser Arg Trp	Leu Ala Gln Pro Tyr Tyr	Leu Leu Ser Ala	Leu Leu
20	25	30	
Ser Ala Ala Phe	Leu Leu Val Arg Lys	Leu Pro Pro	Leu Cys His Gly
35	40	45	
Leu Pro Thr Gln	Arg Glu Asp Gly Asn	Pro Cys Asp Phe	Asp Trp Arg
50	55	60	
Glu Val Glu Ile	Leu Met Phe Leu Ser	Ala Ile Val Met	Met Lys Asn
65	70	75	80
Arg Arg Ser Ile	Thr Val Glu Gln His	Ile Gly Asn Ile	Phe Met Phe
85	90	95	
Ser Lys Val Ala	Asn Thr Ile Leu Phe	Phe Arg Leu Asp	Ile Arg Met
100	105	110	
Gly Leu Leu Tyr	Ile Thr Leu Cys Ile	Val Phe Leu Met	Thr Cys Lys
115	120	125	
Pro Pro Leu Tyr	Met Gly Pro Glu Tyr	Ile Lys Tyr Phe	Asn Asp Lys
130	135	140	
Thr Ile Asp Glu	Glu Leu Glu Arg Asp	Lys Arg Val Thr	Trp Ile Val
145	150	155	160
Glu Phe Phe Ala	Asn Trp Ser Asn Asp	Cys Gln Ser Phe	Ala Pro Ile
165	170	175	
Tyr Ala Asp Leu	Ser Leu Lys Tyr Asn	Cys Thr Gly Leu	Asn Phe Gly
180	185	190	
Lys Val Asp Val	Gly Arg Tyr Thr Asp	Val Ser Thr Arg	Tyr Lys Val
195	200	205	
Ser Thr Ser Pro	Leu Thr Lys Gln Leu	Pro Thr Leu Ile	Leu Phe Gln
210	215	220	
Gly Gly Lys Glu	Ala Met Arg Arg Pro	Gln Ile Asp Lys	Lys Gly Arg
225	230	235	240
Ala Val Ser Trp	Thr Phe Ser Glu Glu	Asn Val Ile Arg	Glu Phe Asn
245	250	255	
Leu Asn Glu Leu	Tyr Gln Arg Ala Lys	Lys Leu Ser Lys	Ala Gly Asp
260	265	270	
Asn Ile Pro Glu	Glu Gln Pro Val Xaa	Ser Thr Pro Thr	Thr Val Ser
275	280	285	
Asp Gly Glu Asn	Lys Lys Asp Lys		
290	295		

<210> 61
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 61
Met Arg Ala Phe Arg Lys Asn Lys Thr Leu Gly Tyr Gly Val Pro Met
1 5 10 15
Leu Leu Leu Ile Val Gly Gly Ser Phe Gly Leu Arg Glu Phe Ser Gln
20 25 30
Ile Arg Tyr Asp Ala Val Lys Ser Lys Met Asp Pro Glu Leu Glu Lys
35 40 45
Lys Leu Lys Glu Asn Lys Ile Ser Leu Glu Ser Glu Tyr Glu Lys Ile
50 55 60
Lys Asp Ser Lys Phe Asp Asp Trp Lys Asn Ile Arg Gly Pro Arg Pro
65 70 75 80
Trp Glu Asp Pro Asp Leu Leu Gln Gly Arg Asn Pro Glu Ser Leu Lys
85 90 95
Thr Lys Thr Thr
100

<210> 62
<211> 47
<212> PRT
<213> Homo sapiens

<400> 62
Met Ile Gln Leu Ile Leu Gln Phe Trp Tyr Leu Phe Ser Met Leu Leu
1 5 10 15
Lys Pro Val Gln Gln Cys Gln His Cys Ser Gln Ile Thr Pro Ser Gly
20 25 30
Thr Met Pro Thr Ser Glu Thr Val Phe Leu Ile Leu Phe Leu Pro
35 40 45

<210> 63
<211> 162
<212> PRT
<213> Homo sapiens

<400> 63
Met Lys Met Val Ala Pro Trp Thr Arg Phe Tyr Ser Asn Ser Cys Cys
1 5 10 15
Leu Cys Cys His Val Arg Thr Gly Thr Ile Leu Leu Gly Val Trp Tyr
20 25 30
Leu Ile Ile Asn Ala Val Val Leu Leu Ile Leu Leu Ser Ala Leu Ala
35 40 45
Asp Pro Asp Gln Tyr Asn Phe Ser Ser Ser Glu Leu Gly Gly Asp Phe
50 55 60
Glu Phe Met Asp Asp Ala Asn Met Cys Ile Ala Ile Ala Ile Ser Leu
65 70 75 80

Leu Met Ile Leu Ile Cys Ala Met Ala Thr Tyr Gly Ala Tyr Lys Gln
 85 90 95
 Arg Ala Ala Gly Ile Ile Pro Phe Phe Cys Tyr Gln Ile Phe Asp Phe
 100 105 110
 Ala Leu Asn Met Leu Val Ala Ile Thr Val Leu Ile Tyr Pro Asn Ser
 115 120 125
 Ile Gln Glu Tyr Ile Arg Gln Leu Pro Pro Asn Phe Pro Tyr Arg Asp
 130 135 140
 Asp Val Met Cys Ser Glu Ser Tyr Leu Phe Gly Pro Tyr Tyr Ser Ser
 145 150 155 160
 Val Tyr

<210> 64
 <211> 335
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (297)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 64
 Met Arg Gly Leu Gly Leu Trp Leu Leu Gly Ala Met Met Leu Pro Ala
 1 5 10 15
 Ile Ala Pro Ser Arg Pro Trp Ala Leu Met Glu Gln Tyr Glu Val Val
 20 25 30
 Leu Pro Xaa Arg Leu Pro Gly Pro Arg Val Arg Arg Ala Leu Pro Ser
 35 40 45
 His Leu Gly Leu His Pro Glu Arg Val Ser Tyr Val Leu Gly Ala Thr
 50 55 60
 Gly His Asn Phe Thr Leu His Leu Arg Lys Asn Arg Asp Leu Leu Gly
 65 70 75 80
 Ser Gly Tyr Thr Glu Thr Tyr Thr Ala Ala Asn Gly Ser Glu Val Thr
 85 90 95
 Glu Gln Pro Arg Gly Gln Asp His Cys Phe Tyr Gln Gly His Val Glu
 100 105 110
 Gly Tyr Pro Asp Ser Ala Ala Ser Leu Ser Thr Cys Ala Gly Leu Arg
 115 120 125
 Gly Phe Phe Gln Val Gly Ser Asp Leu His Leu Ile Glu Pro Leu Asp
 130 135 140

Glu Gly Gly Glu Gly Gly Arg His Ala Val Tyr Gln Ala Glu His Leu
 145 150 155 160
 Leu Gln Thr Ala Gly Thr Cys Gly Val Ser Asp Asp Ser Leu Gly Ser
 165 170 175
 Leu Leu Gly Pro Arg Thr Ala Ala Val Phe Arg Pro Arg Pro Gly Asp
 180 185 190
 Ser Leu Pro Ser Arg Glu Thr Arg Tyr Val Glu Leu Tyr Val Val Val
 195 200 205
 Asp Asn Ala Glu Phe Gln Met Leu Gly Ser Glu Ala Ala Val Arg His
 210 215 220
 Arg Val Leu Glu Val Val Asn His Val Asp Lys Leu Tyr Gln Lys Leu
 225 230 235 240
 Asn Phe Arg Val Val Leu Val Gly Leu Glu Ile Trp Asn Ser Gln Asp
 245 250 255
 Arg Phe His Val Ser Pro Asp Pro Ser Val Thr Leu Glu Asn Leu Leu
 260 265 270
 Thr Trp Gln Ala Arg Gln Arg Thr Arg Arg His Leu His Asp Asn Val
 275 280 285
 Gln Leu Ile Thr Gly Val Asp Phe Xaa Gly Thr Thr Val Gly Phe Ala
 290 295 300
 Arg Val Ser Thr Met Cys Ser His Ser Ser Gly Ala Val Asn Gln Asp
 305 310 315 320
 His Ser Lys Asn Pro Val Gly Val Ala Cys Thr Met Ala His Glu
 325 330 335

<210> 65
 <211> 356
 <212> PRT
 <213> Homo sapiens

<400> 65
 Met Asp Tyr Arg Gly Gly Asp Gly Thr Ser Met Asp Tyr Arg Gly Arg
 1 5 10 15
 Glu Ala Pro His Met Asn Tyr Arg Asp Arg Asp Ala His Ala Val Asp
 20 25 30
 Phe Arg Gly Arg Asp Ala Pro Pro Ser Asp Phe Arg Gly Arg Gly Thr
 35 40 45
 Tyr Asp Leu Asp Phe Arg Gly Arg Asp Gly Ser His Ala Asp Phe Arg
 50 55 60
 Gly Arg Asp Leu Ser Asp Leu Asp Phe Arg Ala Arg Glu Gln Ser Arg
 65 70 75 80
 Ser Asp Phe Arg Asn Arg Asp Val Ser Asp Leu Asp Phe Arg Asp Lys
 85 90 95

Asp Gly Thr Gln Val Asp Phe Arg Gly Arg Gly Ser Gly Thr Thr Asp
 100 105 110
 Leu Asp Phe Arg Asp Arg Asp Thr Pro His Ser Asp Phe Arg Gly Arg
 115 120 125
 His Arg Ser Arg Thr Asp Gln Asp Phe Arg Gly Arg Glu Met Gly Ser
 130 135 140
 Cys Met Glu Phe Lys Asp Arg Glu Met Pro Pro Val Asp Pro Asn Ile
 145 150 155 160
 Leu Asp Tyr Ile Gln Pro Ser Thr Gln Asp Arg Glu His Ser Gly Met
 165 170 175
 Asn Val Asn Arg Arg Glu Glu Ser Thr His Asp His Thr Ile Glu Arg
 180 185 190
 Pro Ala Phe Gly Ile Gln Lys Gly Glu Phe Glu His Ser Glu Thr Arg
 195 200 205
 Glu Gly Glu Thr Gln Gly Val Ala Phe Glu His Glu Ser Pro Ala Asp
 210 215 220
 Phe Gln Asn Ser Gln Ser Pro Val Gln Asp Gln Asp Lys Ser Gln Leu
 225 230 235 240
 Ser Gly Arg Glu Glu Gln Ser Ser Asp Ala Gly Leu Phe Lys Glu Glu
 245 250 255
 Gly Gly Leu Asp Phe Leu Gly Arg Gln Asp Thr Asp Tyr Arg Ser Met
 260 265 270
 Glu Tyr Arg Asp Val Asp His Arg Leu Pro Gly Ser Gln Met Phe Gly
 275 280 285
 Tyr Gly Gln Ser Lys Ser Phe Pro Glu Gly Lys Thr Ala Arg Asp Ala
 290 295 300
 Gln Arg Asp Leu Gln Asp Gln Asp Tyr Arg Thr Gly Pro Ser Glu Glu
 305 310 315 320
 Lys Pro Ser Arg Leu Ile Arg Leu Ser Gly Val Pro Glu Asp Ala Thr
 325 330 335
 Lys Glu Glu Ile Leu Asn Ala Phe Arg Thr Pro Asp Gly Met Pro Val
 340 345 350
 Lys Asn Cys Ser
 355

<210> 66
 <211> 125
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 66

Met Leu Ser Gln Pro Leu Val Gly Ala Gln Arg Arg Arg Arg Ala Val
1 5 10 15

Gly Leu Ala Val Val Thr Leu Leu Asn Phe Leu Val Cys Phe Gly Pro
20 25 30

Tyr Asn Val Ser His Leu Val Gly Tyr His Gln Arg Lys Ser Pro Trp
35 40 45

Trp Arg Ser Ile Ala Val Xaa Phe Ser Ser Leu Asn Ala Ser Leu Asp
50 55 60

Pro Leu Leu Phe Tyr Phe Ser Ser Ser Val Val Arg Arg Ala Phe Gly
65 70 75 80

Arg Gly Leu Gln Val Leu Arg Asn Gln Gly Ser Ser Leu Leu Gly Arg
85 90 95

Arg Gly Lys Asp Thr Ala Glu Gly Thr Asn Glu Asp Arg Gly Val Gly
100 105 110

Gln Gly Glu Gly Met Pro Ser Ser Asp Phe Thr Thr Glu
115 120 125

<210> 67

<211> 77

<212> PRT

<213> Homo sapiens

<400> 67

Met Arg Leu Val Phe Phe Phe Gly Val Ser Ile Ile Leu Val Leu Gly
1 5 10 15

Ser Thr Phe Val Ala Tyr Leu Pro Asp Tyr Arg Cys Thr Gly Cys Pro
20 25 30

Arg Ala Trp Asp Gly Met Lys Glu Trp Ser Arg Arg Glu Ala Glu Arg
35 40 45

Leu Val Lys Tyr Arg Glu Ala Asn Gly Leu Pro Ile Met Glu Ser Asn
50 55 60

Cys Phe Asp Pro Ser Lys Ile Gln Leu Pro Glu Asp Glu
65 70 75

<210> 68

<211> 121

<212> PRT

<213> Homo sapiens

<400> 68

Met Arg Ile Met Leu Leu Phe Thr Ala Ile Leu Ala Phe Ser Leu Ala
1 5 10 15

Gln Ser Phe Gly Ala Val Cys Lys Glu Pro Gln Glu Glu Val Val Pro
20 25 30

Gly Gly Gly Arg Ser Lys Arg Asp Pro Asp Leu Tyr Gln Leu Leu Gln
 35 40 45
 Arg Leu Phe Lys Ser His Ser Ser Leu Glu Gly Leu Leu Lys Ala Leu
 50 55 60
 Ser Gln Ala Ser Thr Asp Pro Lys Glu Ser Thr Ser Pro Glu Lys Arg
 65 70 75 80
 Asp Met His Asp Phe Phe Val Gly Leu Met Gly Lys Arg Ser Val Gln
 85 90 95
 Pro Asp Ser Pro Thr Asp Val Asn Gln Glu Asn Val Pro Ser Phe Gly
 100 105 110
 Ile Leu Lys Tyr Pro Pro Arg Ala Glu
 115 120

<210> 69
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 69
 Met Val Val Met Glu Val Leu Met Thr Met Val Ala Ile Ile Ile Thr
 1 5 10 15
 Ala Met Gly Met Met Ala Leu Met Thr Glu
 20 25

<210> 70
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 70
 Met Pro Trp Val Leu Leu Leu Leu Thr Leu Leu Thr His Ser Ala Val
 1 5 10 15
 Ser Val Val Gln Ala Gly Leu Thr Gln Pro Pro Ser Val Ser Lys Asp
 20 25 30
 Leu Arg Gln Thr Ala Thr Leu Thr Cys Thr Gly Asn Asn Asn Asn Val
 35 40 45
 Gly Asp Gln Gly Ala Ala Trp Leu Gln Gln His Gln Gly His Pro Pro
 50 55 60
 Lys Leu Leu Ser Tyr Arg Asn Asn Asn Arg Pro Ser Gly Ile Ser Glu
 65 70 75 80
 Arg Leu Ser Ala Ser Arg Ser Gly Ala Thr Ser Ser Leu Thr Ile Thr
 85 90 95
 Gly Leu Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Tyr Asp
 100 105 110
 Ser Ser Leu Ala Val Trp Met Phe Gly Gly Gly Thr Lys Leu Thr Val

225		230		235		240
Val Ser Asp Gln	Val Gln Ile Lys	Val Thr Met Asn Asp Glu Asp Met				
	245	250			255	
Asp Thr Tyr Val	Phe Ala Val Gly Thr Arg Lys Ala Leu Val Arg Leu					
	260	265			270	
Gln Lys Glu Met Gln Asp Leu Ser Glu Phe Cys Ser Asp Lys Pro Lys						
	275	280			285	
Ser Gly Ala Lys Tyr Gly Leu Pro Asp Ser Leu Ala Ile Leu Ser Glu						
	290	295		300		
Met Gly Glu Val Thr Asp Gly Met Met Asp Thr Lys Met Val His Phe						
305	310	315			320	
Leu Thr His Tyr Ala Asp Lys Ile Glu Ser Val His Phe Ser Asp Gln						
	325	330			335	
Phe Ser Gly Pro Lys Ile Met Gln Glu Glu Gly Gln Pro Leu Lys Leu						
	340	345			350	
Pro Asp Thr Lys Arg Thr Leu Leu Phe Thr Phe Asn Val Pro Gly Ser						
	355	360			365	
Gly Asn Thr Tyr Pro Lys Asp Met Glu Ala Leu Leu Pro Leu Met Asn						
	370	375			380	
Met Val Ile Tyr Ser Ile Asp Lys Ala Lys Lys Phe Arg Leu Asn Arg						
385	390	395			400	
Glu Gly Lys Gln Lys Ala Asp Lys Asn Arg Ala Arg Val Glu Glu Asn						
	405	410			415	
Phe Leu Lys Leu Thr His Val Gln Arg Gln Glu Ala Ala Gln Ser Arg						
	420	425			430	
Arg Glu Glu Lys Lys Arg Ala Glu Lys Glu Arg Ile Met Asn Glu Glu						
	435	440			445	
Asp Pro Glu Lys Gln Arg Arg Leu Glu Glu Ala Ala Leu Arg Arg Glu						
	450	455			460	
Gln Lys Lys Leu Glu Lys Lys Gln Met Lys Met Lys Gln Ile Lys Val						
465	470	475			480	
Lys Ala His Val Lys Pro Ser Gln Arg Phe Glu Phe						
	485	490				

<210> 73

<211> 36

<212> PRT

<213> Homo sapiens

<400> 73

Met Leu Phe Leu Cys Leu Leu Pro Ser Leu Phe Pro Pro Gly Leu Pro
1 5 10 15

Thr Thr His Tyr Ile Thr Ser Ile Cys Asn Gln Ser Cys Tyr His His

20 25 30

Cys Ala Arg Ala
35

<210> 74
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 74
Met Ala Glu Leu Leu Leu Xaa Val Leu Ser Val Gln Ser Ala Val His
1 5 10 15
Glu Val Glu Ala Asn Glu Gly Gly Lys Gln Ser His Thr Pro Ala His
20 25 30
Arg Gly Trp Asn Arg Arg Ala Ala Glu Val Arg Lys Ala Arg Leu Pro
35 40 45
Leu Gly Val Thr Val Gly Pro Arg Cys Arg His Ala Val His Pro Ser
50 55 60
Lys Gly Gly Ile Ser Ala Xaa Ala Val Leu
65 70

<210> 75
<211> 133
<212> PRT
<213> Homo sapiens

<400> 75
Met Gly Ser Ser Gly Leu Leu Ser Leu Leu Val Leu Phe Val Leu Leu
1 5 10 15
Ala Asn Val Gln Gly Pro Gly Leu Thr Asp Trp Leu Phe Pro Arg Arg
20 25 30
Cys Pro Lys Ile Arg Glu Glu Cys Glu Phe Gln Glu Arg Asp Val Cys
35 40 45
Thr Lys Asp Arg Gln Cys Gln Asp Asn Lys Lys Cys Cys Val Phe Ser
50 55 60
Cys Gly Lys Lys Cys Leu Asp Leu Lys Gln Asp Val Cys Glu Met Pro
65 70 75 80
Lys Glu Thr Gly Pro Cys Leu Ala Tyr Phe Leu His Trp Trp Tyr Asp
85 90 95

Lys Lys Asp Asn Thr Cys Ser Met Phe Val Tyr Gly Gly Cys Gln Gly
 100 105 110

Asn Asn Asn Asn Phe Gln Ser Lys Ala Asn Cys Leu Asn Thr Cys Lys
 115 120 125

Asn Lys Arg Phe Pro
 130

<210> 76
 <211> 298
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 76
 Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Leu Arg Tyr
 1 5 10 15

Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
 20 25 30

Lys Asp Gln Gln Val Val Thr Ala Val Xaa Tyr Gln Glu Ala Ile Leu
 35 40 45

Ala Cys Lys Thr Pro Lys Lys Thr Val Xaa Ser Arg Leu Glu Trp Lys
 50 55 60

Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
 65 70 75 80

Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
 85 90 95

Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser
 100 105 110

Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu
 115 120 125

Glu Val Leu Val Ala Pro Ala Val Pro Ser Cys Glu Val Pro Ser Ser
 130 135 140

Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys Gln Asp Lys Glu Gly
 145 150 155 160

Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu
 165 170 175

Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met

180	185	190
Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp		
195	200	205
Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg		
210	215	220
Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Ile		
225	230	235
Ile Ala Ala Val Val Val Val Ala Leu Val Ile Ser Val Cys Gly Leu		
245	250	255
Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser		
260	265	270
Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met Ser Glu Asn		
275	280	285
Asp Phe Lys His Thr Lys Ser Phe Ile Ile		
290	295	

<210> 77
 <211> 856
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (190)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (233)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (595)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (683)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 77
 Met Asp Ile Ser Lys Gly Leu Pro Gly Met Gln Gly Gly Leu His Ile
 1 5 10 15

Trp Ile Ser Glu Asn Arg Lys Met Val Pro Val Pro Glu Gly Ala Tyr
 20 25 30

Gly Asn Phe Phe Glu Glu His Cys Tyr Val Ile Leu His Val Pro Gln
 35 40 45
 Ser Pro Lys Xaa Thr Gln Gly Ala Ser Ser Asp Leu His Tyr Trp Val
 50 55 60
 Gly Lys Gln Ala Gly Ala Glu Ala Gln Gly Ala Ala Glu Ala Phe Gln
 65 70 75 80
 Gln Arg Leu Gln Asp Glu Leu Gly Gly Gln Thr Val Leu His Arg Glu
 85 90 95
 Ala Gln Gly His Glu Ser Asp Cys Phe Cys Ser Tyr Phe Arg Pro Gly
 100 105 110
 Ile Ile Tyr Arg Lys Gly Gly Leu Ala Ser Asp Leu Lys His Val Glu
 115 120 125
 Thr Asn Leu Phe Asn Ile Gln Arg Leu Leu His Ile Lys Gly Arg Lys
 130 135 140
 His Val Ser Ala Thr Glu Val Glu Leu Ser Trp Asn Ser Phe Asn Lys
 145 150 155 160
 Gly Asp Ile Phe Leu Leu Asp Leu Gly Lys Met Met Ile Gln Trp Asn
 165 170 175
 Gly Pro Lys Thr Ser Ile Ser Glu Lys Ala Arg Gly Leu Xaa Leu Thr
 180 185 190
 Tyr Ser Leu Arg Asp Arg Glu Arg Gly Gly Gly Arg Ala Gln Ile Gly
 195 200 205
 Val Val Asp Asp Glu Ala Lys Ala Pro Asp Leu Met Gln Ile Met Glu
 210 215 220
 Ala Val Leu Gly Arg Arg Val Gly Xaa Leu Arg Ala Ala Thr Pro Ser
 225 230 235 240
 Lys Asp Ile Asn Gln Leu Gln Lys Ala Asn Val Arg Leu Tyr His Val
 245 250 255
 Tyr Glu Lys Gly Lys Asp Leu Val Val Leu Glu Leu Ala Thr Pro Pro
 260 265 270
 Leu Thr Gln Asp Leu Leu Gln Glu Glu Asp Phe Tyr Ile Leu Asp Gln
 275 280 285
 Gly Gly Phe Lys Ile Tyr Val Trp Gln Gly Arg Met Ser Ser Leu Gln
 290 295 300
 Glu Arg Lys Ala Ala Phe Ser Arg Ala Val Gly Phe Ile Gln Ala Lys
 305 310 315 320
 Gly Tyr Pro Thr Tyr Thr Asn Val Glu Val Val Asn Asp Gly Ala Glu
 325 330 335
 Ser Ala Ala Phe Lys Gln Leu Phe Arg Thr Trp Ser Glu Lys Arg Arg
 340 345 350
 Arg Asn Gln Lys Leu Gly Gly Arg Asp Lys Ser Ile His Val Lys Leu

355					360					365					
Asp	Val	Gly	Lys	Leu	His	Thr	Gln	Pro	Lys	Leu	Ala	Ala	Gln	Leu	Arg
370						375					380				
Met	Val	Asp	Asp	Gly	Ser	Gly	Lys	Val	Glu	Val	Trp	Cys	Ile	Gln	Asp
385					390					395					400
Leu	His	Arg	Gln	Pro	Val	Asp	Pro	Lys	Arg	His	Gly	Gln	Leu	Cys	Ala
				405					410					415	
Gly	Asn	Cys	Tyr	Leu	Val	Leu	Tyr	Thr	Tyr	Gln	Arg	Leu	Gly	Arg	Val
			420					425					430		
Gln	Tyr	Ile	Leu	Tyr	Leu	Trp	Gln	Gly	His	Gln	Ala	Thr	Ala	Asp	Glu
			435				440					445			
Ile	Glu	Ala	Leu	Asn	Ser	Asn	Ala	Glu	Glu	Leu	Asp	Val	Met	Tyr	Gly
	450					455					460				
Gly	Val	Leu	Val	Gln	Glu	His	Val	Thr	Met	Gly	Ser	Glu	Pro	Pro	His
465					470					475					480
Phe	Leu	Ala	Ile	Phe	Gln	Gly	Gln	Leu	Val	Ile	Phe	Gln	Glu	Arg	Ala
				485					490					495	
Gly	His	His	Gly	Lys	Gly	Gln	Ser	Ala	Ser	Thr	Thr	Arg	Leu	Phe	Gln
			500					505					510		
Val	Gln	Gly	Thr	Asp	Ser	His	Asn	Thr	Arg	Thr	Met	Glu	Val	Pro	Ala
		515					520					525			
Arg	Ala	Ser	Ser	Leu	Asn	Ser	Ser	Asp	Ile	Phe	Leu	Leu	Val	Thr	Ala
	530					535					540				
Ser	Val	Cys	Tyr	Leu	Trp	Phe	Gly	Lys	Gly	Cys	Asn	Gly	Asp	Gln	Arg
545					550					555					560
Glu	Met	Ala	Arg	Val	Val	Val	Thr	Val	Ile	Ser	Arg	Lys	Asn	Glu	Glu
				565					570					575	
Thr	Val	Leu	Glu	Gly	Gln	Glu	Pro	Pro	His	Phe	Trp	Glu	Ala	Leu	Gly
			580					585					590		
Gly	Arg	Xaa	Pro	Tyr	Pro	Ser	Asn	Lys	Arg	Leu	Pro	Glu	Glu	Val	Pro
		595					600					605			
Ser	Phe	Gln	Pro	Arg	Leu	Phe	Glu	Cys	Ser	Ser	His	Met	Gly	Cys	Leu
	610					615					620				
Val	Leu	Ala	Glu	Val	Gly	Phe	Phe	Ser	Gln	Glu	Asp	Leu	Asp	Lys	Tyr
625					630					635					640
Asp	Ile	Met	Leu	Leu	Asp	Thr	Trp	Gln	Glu	Ile	Phe	Leu	Trp	Leu	Gly
				645					650					655	
Glu	Ala	Ala	Ser	Glu	Trp	Lys	Glu	Ala	Val	Ala	Trp	Gly	Gln	Glu	Tyr
			660					665					670		
Leu	Lys	Thr	His	Pro	Ala	Gly	Arg	Ser	Pro	Xaa	Thr	Pro	Ile	Val	Leu
			675				680					685			

Val Lys Gln Gly His Glu Pro Pro Thr Phe Ile Gly Trp Phe Phe Thr
 690 695 700
 Trp Asp Pro Tyr Lys Trp Thr Ser His Pro Ser His Lys Glu Val Val
 705 710 715 720
 Asp Gly Ser Pro Ala Ala Ala Ser Thr Ile Ser Glu Ile Thr Ala Glu
 725 730 735
 Val Asn Asn Phe Arg Leu Ser Arg Trp Pro Gly Asn Gly Arg Ala Gly
 740 745 750
 Ala Val Ala Leu Gln Ala Leu Lys Gly Ser Gln Asp Ser Ser Glu Asn
 755 760 765
 Asp Leu Val Arg Ser Pro Lys Ser Ala Gly Ser Arg Thr Ser Ser Ser
 770 775 780
 Val Ser Ser Thr Ser Ala Thr Ile Asn Gly Gly Leu Arg Arg Glu Gln
 785 790 795 800
 Leu Met His Gln Ala Val Glu Asp Leu Pro Glu Gly Val Asp Pro Ala
 805 810 815
 Arg Arg Glu Phe Tyr Leu Ser Asp Ser Asp Phe Gln Asp Ile Phe Gly
 820 825 830
 Lys Ser Lys Glu Glu Phe Tyr Ser Met Ala Thr Trp Arg Gln Arg Gln
 835 840 845
 Glu Lys Lys Gln Leu Gly Phe Phe
 850 855

<210> 78
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 78
 Met Pro Cys Val Phe Cys Tyr Leu Leu Leu Leu Val Gln Phe Thr Tyr
 1 5 10 15
 Thr Phe Thr Leu Ser Asn Pro Asn Ser Ser Ser Arg Pro Asp Ser Asp
 20 25 30
 Phe Asn Phe Leu Lys Ala Ile
 35

<210> 79
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 79
 Met Ala Leu Ser Val Leu Val Leu Leu Leu Leu Ala Val Leu Tyr Glu
 1 5 10 15
 Gly Ile Lys Val Gly Lys Ala Ser Cys Ser Thr Arg Tyr Trp

20

25

30

<210> 80
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 80
 Met Pro Ala Leu Val Leu Leu Pro Arg Val Leu Pro Pro Gly Gln Gly
 1 5 10 15
 Glu Val Gln Arg Val Arg Cys Pro Tyr Val Gly Asn Ser Ser Gly Arg
 20 25 30
 Lys Ile Trp Phe Gly Phe Ile Leu Arg Ala Ile Lys His
 35 40 45

<210> 81
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 81
 Met Glu Ala Lys Phe Gly Leu Leu Cys Phe Leu Val Ser Thr Pro Trp
 1 5 10 15
 Ala Glu Leu Leu Ser Leu Leu Leu His Leu Thr Gln Val Pro Phe Pro
 20 25 30
 Gly Ser Gln Gly Pro Gly Phe
 35

<210> 82
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 82
 Met Leu Ser Phe Lys Leu Leu Leu Leu Ala Val Ala Leu Gly Phe Phe
 1 5 10 15
 Glu Gly Asp Ala Lys Phe Gly Glu Arg Asn Glu Gly Ser Gly Gln Gly
 20 25 30
 Gly Glu Gly Ala
 35

<210> 83
 <211> 293
 <212> PRT
 <213> Homo sapiens

<400> 83
 Leu Ala Pro Leu Ile Ala Leu Val Tyr Ser Val Pro Arg Leu Ser Arg
 1 5 10 15
 Trp Leu Ala Gln Pro Tyr Tyr Leu Leu Ser Ala Leu Leu Ser Ala Ala

20					25					30					
Phe	Leu	Leu	Val	Arg	Lys	Leu	Pro	Pro	Leu	Cys	His	Gly	Leu	Pro	Thr
35				40				45							
Gln	Arg	Glu	Asp	Gly	Asn	Pro	Cys	Asp	Phe	Asp	Trp	Arg	Glu	Val	Glu
50				55				60							
Ile	Leu	Met	Phe	Leu	Ser	Ala	Ile	Val	Met	Met	Lys	Asn	Arg	Arg	Ser
65				70				75				80			
Ile	Thr	Val	Glu	Gln	His	Ile	Gly	Asn	Ile	Phe	Met	Phe	Ser	Lys	Val
				85				90				95			
Ala	Asn	Thr	Ile	Leu	Phe	Phe	Arg	Leu	Asp	Ile	Arg	Met	Gly	Leu	Leu
				100				105				110			
Tyr	Ile	Thr	Leu	Cys	Ile	Val	Phe	Leu	Met	Thr	Cys	Lys	Pro	Pro	Leu
115				120				125							
Tyr	Met	Gly	Pro	Glu	Tyr	Ile	Lys	Tyr	Phe	Asn	Asp	Lys	Thr	Ile	Asp
130				135				140							
Glu	Glu	Leu	Glu	Arg	Asp	Lys	Arg	Val	Thr	Trp	Ile	Val	Glu	Phe	Phe
145				150				155				160			
Ala	Asn	Trp	Ser	Asn	Asp	Cys	Gln	Ser	Phe	Ala	Pro	Ile	Tyr	Ala	Asp
				165				170				175			
Leu	Ser	Leu	Lys	Tyr	Asn	Cys	Thr	Gly	Leu	Asn	Phe	Gly	Lys	Val	Asp
				180				185				190			
Val	Gly	Arg	Tyr	Thr	Asp	Val	Ser	Thr	Arg	Tyr	Lys	Val	Ser	Thr	Ser
195				200				205							
Pro	Leu	Thr	Lys	Gln	Leu	Pro	Thr	Leu	Ile	Leu	Phe	Gln	Gly	Gly	Lys
210				215				220							
Glu	Ala	Met	Arg	Arg	Pro	Gln	Ile	Asp	Lys	Lys	Gly	Arg	Ala	Val	Ser
225				230				235				240			
Trp	Thr	Phe	Ser	Glu	Glu	Asn	Val	Ile	Arg	Glu	Phe	Asn	Leu	Asn	Glu
				245				250				255			
Leu	Tyr	Gln	Arg	Ala	Lys	Lys	Leu	Ser	Lys	Ala	Gly	Asp	Asn	Ile	Pro
				260				265				270			
Glu	Glu	Gln	Pro	Val	Ala	Ser	Thr	Pro	Thr	Thr	Val	Ser	Asp	Gly	Glu
275				280				285							
Asn	Lys	Lys	Asp	Lys											
290															

<210> 84

<211> 143

<212> PRT

<213> Homo sapiens

<400> 84

Met Arg Gly Leu Gly Leu Trp Leu Leu Gly Ala Met Met Leu Pro Ala

1	5	10	15
Ile Ala Pro Ser Arg Pro Trp Ala Leu Met Glu Gln Tyr Glu Val Val	20	25	30
Leu Pro Trp Arg Leu Pro Gly Pro Arg Val Arg Arg Ala Leu Pro Ser	35	40	45
His Leu Gly Leu His Pro Glu Arg Val Ser Tyr Val Leu Gly Ala Thr	50	55	60
Gly His Asn Phe Thr Leu His Leu Arg Lys Asn Arg Asp Leu Leu Gly	65	70	75
Ser Gly Tyr Thr Glu Thr Tyr Thr Ala Ala Asn Gly Ser Glu Val Thr	85	90	95
Glu Gln Pro Arg Gly Gln Asp His Cys Phe Tyr Gln Gly His Leu Glu	100	105	110
Gly Thr Gly Leu Ser Arg Gln Pro Gln His Leu Cys Arg Pro Gln Gly	115	120	125
Phe Leu Pro Gly Gly Val Arg Pro Ala Pro Asp Arg Ala Pro Gly	130	135	140

<210> 85
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 85
Met Arg Ile Met Leu Leu Phe Thr Ala Ile Leu Ala Phe Ser Leu Ala
1 5 10 15
Gln Ser Phe Gly Ala Val Cys Lys Glu Pro Gln Glu Glu Val Val Pro
20 25 30
Gly Gly Gly Arg Ser Lys Arg Asp Pro Asp Leu Tyr Gln Leu Leu Gln
35 40 45
Arg Leu Phe Lys Ser His Ser Ser Leu Glu Gly Leu Lys Ala Leu
50 55 60
Ser Gln Xaa Ser Thr Asp Pro Lys Glu Ser Thr Ser Pro Glu Lys Arg
65 70 75 80
Asp Met His Asp Phe Phe Val Gly Xaa Met Gly Lys Arg Ser Val Gln
85 90 95

Pro Asp Ser Pro Thr Asp Val Asn Gln Glu Asn Val Pro Ser Phe Gly
 100 105 110

Ile Leu Lys Tyr Pro Pro Arg Ala Glu
 115 120

<210> 86
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 86
 Met Val Leu Leu Met Val Trp Val Val Met Ala Val Val Val Glu Ala
 1 5 10 15

Val Glu Val Thr Met Gly Lys Ala Ala
 20 25

<210> 87
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 87
 Ser Leu His Ala
 1

<210> 88
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 88
 Met Pro Trp Val Leu Leu Leu Leu Thr Leu Leu Thr His Ser Ala Val
 1 5 10 15

Ser Val Val Gln Ala Gly Leu Thr Gln Pro Pro Ser Val Ser Lys Asp
 20 25 30

Leu Arg Gln Thr Ala Thr Leu Thr Cys Thr Gly Asn Asn Asn Asn Val
 35 40 45

Gly Asp Gln Gly Ala Ala Trp Leu Gln Gln His Gln Gly His Pro Pro
 50 55 60

Lys Leu Leu Ser Tyr Arg Asn Asn Asn Arg Pro Ser Gly Ile Ser Glu
 65 70 75 80

Arg Leu Ser Ala Ser Arg Ser Gly Ala Thr Ser Ser Leu Thr Ile Thr
 85 90 95

Gly Leu Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Tyr Asp
 100 105 110

Ser Ser Leu Ala Val Trp Met Phe Gly Gly Gly Thr Lys Leu Thr Val
 115 120 125

Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser

130	135	140
Ser Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser		
145	150	155 160
Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser		
	165	170 175
Pro Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn		
	180	185 190
Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp		
	195	200 205
Lys Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr		
	210	215 220
Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser		
225	230	235

<210> 89
 <211> 87
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 89
 Met Ser Leu Asn Val Leu Leu Ala Leu Phe Xaa Leu Leu Leu Ala Lys
 1 5 10 15
 Glu Ser Ser Cys Arg Ile Pro Ala Ala Arg Gly Asp Pro Leu Val Leu
 20 25 30
 Glu Arg Pro Pro Pro Arg Trp Glu Leu Gln Leu Leu Val Pro Phe Ser
 35 40 45
 Glu Gly Leu Ile Ser Ser Leu Ala Val Ile Met Gly His Ser Leu Phe
 50 55 60
 Pro Gly Val Glu Ile Gly Tyr Pro Ala His Lys Phe His Asn Asn Asn
 65 70 75 80
 Thr Ser Arg Lys His Xaa Val
 85

<210> 90
 <211> 106
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 90
 Met Ala Leu His Gly Phe His Phe Asp Leu Phe His Phe His Leu Leu
 1 5 10 15
 Leu Phe Gln Leu Leu Xaa Leu Thr Pro Gln Cys Ser Leu Leu Gln Pro
 20 25 30
 Ala Leu Phe Leu Arg Ile Phe Leu Ile His Asp Ser Leu Leu Leu Cys
 35 40 45
 Ser Phe Phe Leu Leu Pro Pro Arg Leu Cys Cys Phe Leu Ser Leu His
 50 55 60
 Met Cys Gln Phe Gln Glu Val Leu Phe Tyr Ser Gly Thr Val Leu Ile
 65 70 75 80
 Cys Phe Leu Phe Ala Phe Ser Val Glu Ser Glu Leu Phe Gly Phe Ile
 85 90 95
 Asn Arg Ile Asn His His Val His Gln Gly
 100 105

<210> 91
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 91
 Met Tyr Ala Lys Cys Gln Lys Lys Leu Ala Pro Ala Trp Leu Ile Phe
 1 5 10 15
 Phe Ile Gly Gly Met Thr Arg Lys Ile Ile Leu Ala Pro Cys Leu Ser
 20 25 30
 Met Val Ala Ala Arg Gly Asn Asn Asn Asn Phe Gln Ser Lys Ala Asn
 35 40 45
 Cys Leu Asn Thr Cys Lys Asn Lys Arg Phe Pro
 50 55

<210> 92
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 92
 Met Glu Val Pro Ala Arg Ala Ser Ser Leu Asn Ser Ser Asp Ile Phe
 1 5 10 15
 Leu Leu Val Thr Ala Ser Val Cys Tyr Leu Trp Phe Gly Lys Gly Leu
 20 25 30

<210> 93
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 93

Phe Ser Val Thr Asn Asn Thr Glu Cys Gly Lys Leu Leu Glu Glu Ile
 1 5 10 15
 Lys Cys Ala Leu Cys Ser Pro His Ser Gln Ser Leu Phe His Ser Pro
 20 25 30
 Glu Arg Glu Val Leu Glu Arg Asp Leu Val Leu Pro Leu Leu Cys Lys
 35 40 45
 Asp Tyr Cys Lys Glu Phe Phe Tyr Thr Cys Arg Gly His Ile Pro Gly
 50 55 60
 Phe Leu Gln Thr Thr Ala Asp Glu Phe Cys Phe Tyr Tyr Ala Arg Lys
 65 70 75 80
 Asp Gly Gly Leu Cys Phe Pro Asp Phe Pro Arg Lys Gln Val Arg Gly
 85 90 95
 Pro Ala Ser Asn Tyr Leu Asp Gln Met Glu Glu Tyr Asp Lys Val Glu
 100 105 110
 Glu Ile Ser Arg Lys His Lys His Asn Cys Phe Cys Ile Gln Glu Val
 115 120 125
 Val Ser Gly Leu Arg Gln Pro Val Gly Ala Leu His Ser Gly Asp Gly
 130 135 140
 Ser Gln Arg Leu Phe Ile Leu Glu Lys Glu Gly Tyr Val Lys Ile Leu
 145 150 155 160
 Thr Pro Glu Gly Glu Ile Phe Lys Glu Pro Tyr Leu Asp Ile His Lys
 165 170 175
 Leu Val

<210> 94
 <211> 216
 <212> PRT
 <213> Homo sapiens

<400> 94

Asp Gly Asn Pro Cys Asp Phe Asp Trp Arg Glu Val Glu Ile Leu Met
 1 5 10 15
 Phe Leu Ser Ala Ile Val Met Met Lys Asn Arg Arg Ser Ile Thr Val
 20 25 30
 Glu Gln His Ile Gly Asn Ile Phe Met Phe Ser Lys Val Ala Asn Thr
 35 40 45
 Ile Leu Phe Phe Arg Leu Asp Ile Arg Met Gly Leu Leu Tyr Ile Thr

50					55					60					
Leu	Cys	Ile	Val	Phe	Leu	Met	Thr	Cys	Lys	Pro	Pro	Leu	Tyr	Met	Gly
65					70					75					80
Pro	Glu	Tyr	Ile	Lys	Tyr	Phe	Asn	Asp	Lys	Thr	Ile	Asp	Glu	Glu	Leu
				85					90					95	
Glu	Arg	Asp	Lys	Arg	Val	Thr	Trp	Ile	Val	Glu	Phe	Phe	Ala	Asn	Trp
			100					105					110		
Ser	Asn	Asp	Cys	Gln	Ser	Phe	Ala	Pro	Ile	Tyr	Ala	Asp	Leu	Ser	Leu
			115				120					125			
Lys	Tyr	Asn	Cys	Thr	Gly	Leu	Asn	Phe	Gly	Lys	Val	Asp	Val	Gly	Arg
			130			135					140				
Tyr	Thr	Asp	Val	Ser	Thr	Arg	Tyr	Lys	Val	Ser	Thr	Ser	Pro	Leu	Thr
145						150					155				160
Lys	Gln	Leu	Pro	Thr	Leu	Ile	Leu	Phe	Gln	Gly	Gly	Lys	Glu	Ala	Met
				165					170					175	
Arg	Arg	Pro	Gln	Ile	Asp	Lys	Lys	Gly	Arg	Ala	Val	Ser	Trp	Thr	Phe
			180					185					190		
Ser	Glu	Glu	Asn	Val	Ile	Arg	Glu	Phe	Asn	Leu	Asn	Glu	Leu	Tyr	Gln
			195				200					205			
Arg	Ala	Lys	Lys	Leu	Ser	Lys	Ala								
			210			215									

<210> 95

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 95

Gln	Leu	Ile	Val	Thr	Ala	Arg	Thr	Thr	Arg	Gly	Leu	Asp	Pro	Leu	Phe
1					5				10					15	

Gly	Met	Cys	Glu	Lys	Phe	Leu	Gln	Glu	Val	Asp	Phe	Phe	Gln	Arg	Tyr
			20					25					30		

Phe	Ile	Ala	Asp	Leu	Pro	His	Leu	Gln	Asp	Ser	Phe	Val	Asp	Lys	Leu
		35					40					45			

Leu	Asp	Leu	Met	Pro	Arg	Leu	Met	Thr	Ser	Lys	Pro	Ala	Glu	Val	Val
	50					55					60				

Lys	Ile	Leu	Gln	Thr	Met	Leu	Arg	Gln	Ser	Ala	Phe	Leu	His	Leu	Pro
65					70					75					80

Leu	Pro	Glu	Gln	Ile	His	Lys	Ala	Ser	Ala	Thr	Ile	Ile	Glu	Pro	Ala
				85					90					95	

Gly Glu Phe Arg Gln Pro Phe Ala Val Tyr Leu Trp Val Gly Gly Cys
 100 105 110
 Pro Gly Met Leu Met Gln Pro Trp Ser Met Cys Arg Ile Leu Arg Thr
 115 120 125
 Leu Leu Arg Ser Arg Val Leu Tyr Pro Asp Gly Gln Xaa Ser Asp Asp
 130 135 140
 Ser Pro Gln Ala Cys Arg Leu Pro Glu Ser Trp Pro Arg Ala Ala Pro
 145 150 155 160
 Ala His His Ser Gly Leu Ser Leu Pro His Arg Leu Asp Arg Gly Met
 165 170 175
 Pro Gly Gly Ser Glu Ala Ala Ala Gly Leu Gln Leu Gln Cys Ser His
 180 185 190
 Ser Lys Met Pro
 195

<210> 96
 <211> 255
 <212> PRT
 <213> Homo sapiens

<400> 96
 Ile His Leu Ala Leu Val Glu Leu Leu Lys Asn Leu Thr Lys Tyr Pro
 1 5 10 15
 Thr Asp Arg Asp Ser Ile Trp Lys Cys Leu Lys Phe Leu Gly Ser Arg
 20 25 30
 His Pro Thr Leu Val Leu Pro Leu Val Pro Glu Leu Leu Ser Thr His
 35 40 45
 Pro Phe Phe Asp Thr Ala Glu Pro Asp Met Asp Asp Pro Ala Tyr Ile
 50 55 60
 Ala Val Leu Val Leu Ile Phe Asn Ala Ala Lys Thr Cys Pro Thr Met
 65 70 75 80
 Pro Ala Leu Phe Ser Asp His Thr Phe Arg His Tyr Ala Tyr Leu Arg
 85 90 95
 Asp Ser Leu Ser His Leu Val Pro Ala Leu Arg Leu Pro Gly Arg Lys
 100 105 110
 Leu Val Ser Ser Ala Val Ser Pro Ser Ile Ile Pro Gln Glu Asp Pro
 115 120 125
 Ser Gln Gln Phe Leu Gln Gln Ser Leu Glu Arg Val Tyr Ser Leu Gln
 130 135 140
 His Leu Asp Pro Gln Gly Ala Gln Glu Leu Leu Glu Phe Thr Ile Arg
 145 150 155 160
 Asp Leu Gln Arg Leu Gly Glu Leu Gln Ser Glu Leu Ala Gly Val Ala
 165 170 175

Asp Phe Ser Ala Thr Tyr Leu Arg Cys Gln Leu Leu Leu Ile Lys Ala
 180 185 190
 Leu Gln Glu Lys Leu Trp Asn Val Ala Ala Pro Leu Tyr Leu Lys Gln
 195 200 205
 Ser Asp Leu Ala Ser Ala Ala Ala Lys Gln Ile Met Glu Glu Thr Tyr
 210 215 220
 Lys Met Glu Phe Met Tyr Ser Gly Val Glu Asn Lys Gln Val Val Ile
 225 230 235 240
 Ile His His Met Arg Leu Gln Ala Lys Ala Leu Gln Leu Ile Val
 245 250 255

<210> 97
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 97
 Arg Phe Tyr Ser Asn Ser Cys Cys Leu Cys Cys His Val Arg Thr Gly
 1 5 10 15
 Thr Ile Leu Leu Gly Val Trp Tyr Leu Ile Ile Asn Ala Val Val Leu
 20 25 30
 Leu Ile Leu Leu Ser Ala Leu Ala Asp Pro Asp Gln Tyr Asn Phe Ser
 35 40 45
 Ser Ser Glu Leu Gly Gly Asp Phe Glu Phe Met Asp Asp Ala Asn Met
 50 55 60
 Cys Ile Ala Ile Ala Ile Ser Leu Leu Met Ile Leu Ile Cys Ala Met
 65 70 75 80
 Ala Thr Tyr Gly Ala Tyr Lys Gln Arg Ala Ala Gly Ile Ile Pro Phe
 85 90 95
 Phe Cys Tyr Gln Ile Phe Asp Phe Ala Leu Asn Met Leu Val Ala Ile
 100 105 110
 Thr Val Leu Ile Tyr Pro Asn Ser Ile Gln Glu Tyr Ile Arg Gln Leu
 115 120 125
 Pro Pro Asn Phe Pro Tyr Arg Asp Asp
 130 135

<210> 98
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 98
 Phe Pro Thr Glu Met Met Ser Cys Ala Val Asn Pro Thr Cys Leu Val
 1 5 10 15
 Leu Ile Ile Leu Leu Phe Ile Ser Ile Ile Leu Thr Phe Lys Gly Tyr

20 25 30
 Leu Ile Ser Cys Val Trp Asn Cys Tyr Arg Tyr Ile Asn Gly Arg Asn
 35 40 45
 Ser Ser Asp Val Leu Val Tyr Val Thr Ser Asn Asp Thr Thr Val Leu
 50 55 60
 Leu Pro Pro Tyr Asp Asp Ala Thr Val Asn Gly Ala Ala Lys Glu Pro
 65 70 75 80
 Pro Pro Pro Tyr Val Ser Ala
 85

<210> 99
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 99
 Ile Ala Pro Ser Arg Pro Trp Ala Leu Met Glu Gln Tyr Glu Val Val
 1 5 10 15
 Leu Pro Trp Arg Leu Pro Gly Pro Arg Val Arg Arg Ala Leu Pro Ser
 20 25 30
 His Leu Gly Leu His Pro Glu Arg Val Ser Tyr Val Leu Gly Ala Thr
 35 40 45
 Gly His Asn Phe Thr Leu His Leu Arg Lys Asn Arg Asp Leu Leu Gly
 50 55 60
 Ser Gly Tyr Thr Glu Thr Tyr Thr Ala Ala Asn Gly Ser Glu Val Thr
 65 70 75 80
 Glu Gln Pro Arg Gly Gln Asp His Cys Phe Tyr Gln Gly His Leu Glu
 85 90 95
 Gly

<210> 100
 <211> 240
 <212> PRT
 <213> Homo sapiens

<400> 100
 Pro Asp Ser Ala Ala Ser Leu Ser Thr Cys Ala Gly Leu Arg Gly Phe
 1 5 10 15
 Phe Gln Val Gly Ser Asp Leu His Leu Ile Glu Pro Leu Asp Glu Gly
 20 25 30
 Gly Glu Gly Gly Arg His Ala Val Tyr Gln Ala Glu His Leu Leu Gln
 35 40 45
 Thr Ala Gly Thr Cys Gly Val Ser Asp Asp Ser Leu Gly Ser Leu Leu
 50 55 60

Gly Pro Arg Thr Ala Ala Val Phe Arg Pro Arg Pro Gly Asp Ser Leu
 65 70 75 80
 Pro Ser Arg Glu Thr Arg Tyr Val Glu Leu Tyr Val Val Val Asp Asn
 85 90 95
 Ala Glu Phe Gln Met Leu Gly Ser Glu Ala Ala Val Arg His Arg Val
 100 105 110
 Leu Glu Val Val Asn His Val Asp Lys Leu Tyr Gln Lys Leu Asn Phe
 115 120 125
 Arg Val Val Leu Val Gly Leu Glu Ile Trp Asn Ser Gln Asp Arg Phe
 130 135 140
 His Val Ser Pro Asp Pro Ser Val Thr Leu Glu Asn Leu Leu Thr Trp
 145 150 155 160
 Gln Ala Arg Gln Arg Thr Arg Arg His Leu His Asp Asn Val Gln Leu
 165 170 175
 Ile Thr Gly Val Asp Phe Thr Gly Thr Thr Val Gly Phe Ala Arg Val
 180 185 190
 Ser Ala Met Cys Ser His Ser Ser Gly Ala Val Asn Gln Asp His Ser
 195 200 205
 Lys Asn Pro Val Gly Val Ala Cys Thr Met Ala His Glu Met Gly His
 210 215 220
 Asn Leu Gly Met Asp His Asp Glu Asn Val Gln Gly Cys Arg Cys Gln
 225 230 235 240

<210> 101
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 101
 Phe Glu Ala Gly Arg Cys Ile Met Ala Arg Pro Ala Leu Ala Pro Ser
 1 5 10 15
 Phe Pro Arg Met Phe Ser Asp Cys Ser Gln Ala Tyr Leu Glu Ser Phe
 20 25 30
 Leu Glu Arg Pro Gln Ser Val Cys Leu Ala Asn Ala Pro Asp Leu Ser
 35 40 45
 His Leu Val Gly Gly Pro Val Cys Gly Asn Leu Phe Val Glu Arg Gly
 50 55 60
 Glu Gln Cys Asp Cys Gly Pro Pro Glu Asp Cys Arg Asn Arg Cys Cys
 65 70 75 80
 Asn Ser Thr Thr Cys Gln Leu Ala Glu Gly Ala Gln Cys Ala His Gly
 85 90 95

Thr Cys Cys Gln Glu Cys Lys Val Lys Pro Ala Gly Glu Leu Cys Arg
 100 105 110

Pro Lys Lys Asp Met Cys
 115

<210> 102

<211> 471

<212> PRT

<213> Homo sapiens

<400> 102

Gly Ser Gln Glu Glu Arg Phe Ala Pro Gly Trp Asn Arg Asp Tyr Pro
 1 5 10 15

Pro Pro Pro Leu Lys Ser His Ala Gln Glu Arg His Ser Gly Asn Phe
 20 25 30

Pro Gly Arg Asp Ser Leu Pro Phe Asp Phe Gln Gly His Ser Gly Pro
 35 40 45

Pro Phe Ala Asn Val Glu Glu His Ser Phe Ser Tyr Gly Ala Arg Asp
 50 55 60

Gly Pro His Gly Asp Tyr Arg Gly Gly Glu Gly Pro Gly His Asp Phe
 65 70 75 80

Arg Gly Gly Asp Phe Ser Ser Ser Asp Phe Gln Ser Arg Asp Ser Ser
 85 90 95

Gln Leu Asp Phe Arg Gly Arg Asp Ile His Ser Gly Asp Phe Arg Asp
 100 105 110

Arg Glu Gly Pro Pro Met Asp Tyr Arg Gly Gly Asp Gly Thr Ser Met
 115 120 125

Asp Tyr Arg Gly Arg Glu Ala Pro His Met Asn Tyr Arg Asp Arg Asp
 130 135 140

Ala His Ala Val Asp Phe Arg Gly Arg Asp Ala Pro Pro Ser Asp Phe
 145 150 155 160

Arg Gly Arg Gly Thr Tyr Asp Leu Asp Phe Arg Gly Arg Asp Gly Ser
 165 170 175

His Ala Asp Phe Arg Gly Arg Asp Leu Ser Asp Leu Asp Phe Arg Ala
 180 185 190

Arg Glu Gln Ser Arg Ser Asp Phe Arg Asn Arg Asp Val Ser Asp Leu
 195 200 205

Asp Phe Arg Asp Lys Asp Gly Thr Gln Val Asp Phe Arg Gly Arg Gly
 210 215 220

Ser Gly Thr Thr Asp Leu Asp Phe Arg Asp Arg Asp Thr Pro His Ser
 225 230 235 240

Asp Phe Arg Gly Arg His Arg Ser Arg Thr Asp Gln Asp Phe Arg Gly
 245 250 255

Arg Glu Met Gly Ser Cys Met Glu Phe Lys Asp Arg Glu Met Pro Pro
 260 265 270
 Val Asp Pro Asn Ile Leu Asp Tyr Ile Gln Pro Ser Thr Gln Asp Arg
 275 280 285
 Glu His Ser Gly Met Asn Val Asn Arg Arg Glu Glu Ser Thr His Asp
 290 295 300
 His Thr Ile Glu Arg Pro Ala Phe Gly Ile Gln Lys Gly Glu Phe Glu
 305 310 315 320
 His Ser Glu Thr Arg Glu Gly Glu Thr Gln Gly Val Ala Phe Glu His
 325 330 335
 Glu Ser Pro Ala Asp Phe Gln Asn Ser Gln Ser Pro Val Gln Asp Gln
 340 345 350
 Asp Lys Ser Gln Leu Ser Gly Arg Glu Glu Gln Ser Ser Asp Ala Gly
 355 360 365
 Leu Phe Lys Glu Glu Gly Gly Leu Asp Phe Leu Gly Arg Gln Asp Thr
 370 375 380
 Asp Tyr Arg Ser Met Glu Tyr Arg Asp Val Asp His Arg Leu Pro Gly
 385 390 395 400
 Ser Gln Met Phe Gly Tyr Gly Gln Ser Lys Ser Phe Pro Glu Gly Lys
 405 410 415
 Thr Ala Arg Asp Ala Gln Arg Asp Leu Gln Asp Gln Asp Tyr Arg Thr
 420 425 430
 Gly Pro Ser Glu Glu Lys Pro Ser Arg Leu Ile Arg Leu Ser Gly Val
 435 440 445
 Pro Glu Asp Ala Thr Lys Glu Glu Ile Leu Asn Ala Phe Arg Thr Pro
 450 455 460
 Asp Gly Met Pro Val Lys Asn
 465 470

<210> 103

<211> 125

<212> PRT

<213> Homo sapiens

<400> 103

Gly Leu Gln Asp Ser Ala Arg Gly Gly Ser Gln Glu Glu Arg Phe Ala
 1 5 10 15

Pro Gly Trp Asn Arg Asp Tyr Pro Pro Pro Pro Leu Lys Ser His Ala
 20 25 30

Gln Glu Arg His Ser Gly Asn Phe Pro Gly Arg Asp Ser Leu Pro Phe
 35 40 45

Asp Phe Gln Gly His Ser Gly Pro Pro Phe Ala Asn Val Glu Glu His
 50 55 60

Ser Phe Ser Tyr Gly Ala Arg Asp Gly Pro His Gly Asp Tyr Arg Gly
65 70 75 80

Gly Glu Gly Pro Gly His Asp Phe Arg Gly Gly Asp Phe Ser Ser Ser
85 90 95

Asp Phe Gln Ser Arg Asp Ser Ser Gln Leu Asp Phe Arg Gly Arg Asp
100 105 110

Ile His Ser Gly Asp Phe Arg Asp Arg Glu Gly Pro Pro
115 120 125

<210> 104
<211> 330
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (260)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 104
Met Leu Pro Asp Trp Lys Xaa Ser Leu Ile Leu Met Ala Tyr Ile Ile
1 5 10 15

Ile Phe Leu Thr Gly Leu Pro Ala Asn Leu Leu Ala Leu Arg Ala Phe
20 25 30

Val Gly Arg Ile Arg Gln Pro Gln Pro Ala Pro Val His Ile Leu Leu
35 40 45

Leu Ser Leu Thr Leu Ala Asp Leu Leu Leu Leu Leu Leu Pro Phe
50 55 60

Lys Ile Ile Glu Ala Ala Ser Asn Phe Arg Trp Tyr Leu Pro Lys Val
65 70 75 80

Val Cys Ala Leu Thr Ser Phe Gly Phe Tyr Ser Ser Ile Tyr Cys Ser
85 90 95

Thr Trp Leu Leu Ala Gly Ile Ser Ile Glu Arg Tyr Leu Gly Val Ala
 100 105 110
 Phe Pro Val Gln Tyr Lys Leu Ser Arg Arg Pro Leu Tyr Gly Val Ile
 115 120 125
 Ala Ala Leu Val Ala Trp Val Met Ser Phe Gly His Cys Thr Ile Val
 130 135 140
 Ile Ile Xaa Gln Tyr Leu Asn Thr Thr Glu Gln Val Arg Ser Gly Asn
 145 150 155 160
 Glu Ile Thr Cys Tyr Glu Asn Phe Thr Asp Asn Gln Leu Asp Val Val
 165 170 175
 Leu Pro Val Arg Xaa Glu Leu Cys Leu Val Leu Phe Phe Xaa Pro Met
 180 185 190
 Ala Val Thr Ile Phe Cys Tyr Trp Arg Phe Val Trp Ile Met Leu Ser
 195 200 205
 Gln Pro Leu Val Gly Ala Gln Arg Arg Arg Arg Ala Val Gly Leu Ala
 210 215 220
 Val Val Thr Leu Leu Asn Phe Leu Val Cys Phe Gly Pro Tyr Asn Val
 225 230 235 240
 Ser His Leu Val Gly Tyr His Gln Arg Lys Ser Pro Trp Trp Arg Ser
 245 250 255
 Ile Ala Val Xaa Phe Ser Ser Leu Asn Ala Ser Leu Asp Pro Leu Leu
 260 265 270
 Phe Tyr Phe Ser Ser Ser Val Val Arg Arg Ala Phe Gly Arg Gly Leu
 275 280 285
 Gln Val Leu Arg Asn Gln Gly Ser Ser Leu Leu Gly Arg Arg Gly Lys
 290 295 300
 Asp Thr Ala Glu Gly Thr Asn Glu Asp Arg Gly Val Gly Gln Gly Glu
 305 310 315 320
 Gly Met Pro Ser Ser Asp Phe Thr Thr Glu
 325 330

<210> 105

<211> 17

<212> PRT

<213> Homo sapiens

<400> 105

Cys Ser Thr Trp Leu Leu Ala Gly Ile Ser Ile Glu Arg Tyr Leu Gly
 1 5 10 15

Val

<210> 106

<211> 94
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 106
 Cys Thr Ile Val Ile Ile Xaa Gln Tyr Leu Asn Thr Thr Glu Gln Val
 1 5 10 15
 Arg Ser Gly Asn Glu Ile Thr Cys Tyr Glu Asn Phe Thr Asp Asn Gln
 20 25 30
 Leu Asp Val Val Leu Pro Val Arg Xaa Glu Leu Cys Leu Val Leu Phe
 35 40 45
 Phe Xaa Pro Met Ala Val Thr Ile Phe Cys Tyr Trp Arg Phe Val Trp
 50 55 60
 Ile Met Leu Ser Gln Pro Leu Val Gly Ala Gln Arg Arg Arg Arg Ala
 65 70 75 80
 Val Gly Leu Ala Val Val Thr Leu Leu Asn Phe Leu Val Cys
 85 90

 <210> 107
 <211> 143
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 107
 Gly Leu Pro Ala Ala Arg Val Arg Trp Glu Ser Ser Phe Ser Arg Thr
 1 5 10 15
 Val Val Ala Pro Ser Ala Val Ala Xaa Lys Arg Pro Pro Glu Pro Thr
 20 25 30
 Thr Pro Trp Gln Glu Asp Pro Glu Pro Glu Asp Glu Asn Leu Tyr Glu
 35 40 45
 Lys Asn Pro Asp Ser His Gly Tyr Asp Lys Asp Pro Val Leu Asp Val
 50 55 60

Trp Asn Met Arg Leu Val Phe Phe Phe Gly Val Ser Ile Ile Leu Val
 65 70 75 80
 Leu Gly Ser Thr Phe Val Ala Tyr Leu Pro Asp Tyr Arg Cys Thr Gly
 85 90 95
 Cys Pro Arg Ala Trp Asp Gly Met Lys Glu Trp Ser Arg Arg Glu Ala
 100 105 110
 Glu Arg Leu Val Lys Tyr Arg Glu Ala Asn Gly Leu Pro Ile Met Glu
 115 120 125
 Ser Asn Cys Phe Asp Pro Ser Lys Ile Gln Leu Pro Glu Asp Glu
 130 135 140

<210> 108
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 108
 Pro Glu Lys Arg Asp Met His Asp Phe Phe Val Gly Leu Met Gly Lys
 1 5 10 15
 Arg Ser Val Gln Pro Asp Ser Pro Thr Asp Val Asn Gln Glu Asn Val
 20 25 30
 Pro Ser Phe Gly
 35

<210> 109
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 109
 Lys Arg Asp Met His Asp Phe Phe Val Gly Leu Met Gly Lys Arg
 1 5 10 15

<210> 110
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 110
 Asp Met His Asp Phe Phe Val Gly Leu Met
 1 5 10

<210> 111
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 111
 Glu Trp Glu Ala Thr Glu Glu Met Glu Trp Ile Ile Arg Glu Ala Met
 1 5 10 15

<210> 112
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 112
 Trp Glu Trp Gly Thr Ile Thr Val Glu Asp Met Val Leu Leu Met Val
 1 5 10 15
 Trp Val Val Met Ala Val Val Val Glu Ala Val Glu Val Thr Met Gly
 20 25 30
 Lys Ala Ala
 35

<210> 113
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 113
 Gly Met Gly Gly Tyr Gly Arg Asp Gly Met Asp Asn Gln Gly Gly Tyr
 1 5 10 15
 Gly Ser

<210> 114
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 114
 Gly Met Gly Asn Asn Tyr Ser Gly Gly Tyr Gly Thr Pro Asp Gly Leu
 1 5 10 15
 Gly Gly Tyr Gly Arg Gly Gly Gly Gly Ser Gly Gly Tyr Tyr Gly Gln
 20 25 30
 Gly Gly Met Ser Gly Gly Gly Trp Arg Gly Met
 35 40

<210> 115
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 115
 Gly Met Gly Asn Asn Tyr Ser Gly Gly Tyr Gly Thr Pro Asp Gly Leu
 1 5 10 15
 Gly Gly Tyr Gly Arg Gly Gly Gly Gly Ser Gly Gly Tyr Tyr Gly Gln
 20 25 30

Gly Gly Met Ser Gly Gly Gly Trp Arg Gly Met
 35 40

<210> 116
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 116
 Trp Asp Ser Thr Thr Ser Trp Thr Thr Ile Trp Leu Gln Gln Arg Gly
 1 5 10 15
 Asn Ser Ser Val Leu Ser Arg Val Gly Asn Arg Ala Asn Gly Ile Thr
 20 25 30
 Leu Thr Met Asp Tyr Gln Gly Arg Ser Thr Gly Glu Ala Phe Val Gln
 35 40 45
 Phe Ala Ser Lys Glu Ile Ala Glu Asn Ala Leu Gly Lys His Lys Glu
 50 55 60
 Arg Ile Gly His Arg Tyr Ile Glu Ile Phe Arg Ser Ser Arg Ser Glu
 65 70 75 80
 Ile Lys Gly Phe Tyr Asp Pro Pro Arg Arg Leu Leu Gly Gln Arg Pro
 85 90 95
 Gly Pro Tyr Asp Arg Pro Ile Gly Gly Arg Gly Gly Tyr Tyr Gly Ala
 100 105 110
 Gly Arg Gly Ser Met Tyr Asp Arg Met Arg Arg Gly Gly Asp Gly Tyr
 115 120 125
 Asp Gly Gly Tyr Gly Gly Phe Asp Asp Tyr Gly Gly Tyr Asn Asn Tyr
 130 135 140
 Gly Tyr Gly Asn Asp Gly Phe Asp Asp Arg Met Arg Asp Gly Arg Gly
 145 150 155 160
 Met Gly Gly His Gly Tyr Gly Gly Ala Gly Asp Ala Ser Ser Gly Phe
 165 170 175
 His Gly Gly His Phe Val His Met Arg Gly Leu Pro Phe Arg Ala Thr
 180 185 190
 Glu Asn Asp Ile Ala Asn Phe Phe Ser Pro Leu Asn Pro Ile Arg Val
 195 200 205
 His Ile Asp Ile Gly Ala Asp Gly Arg Ala Gln Glu Lys Gln Met
 210 215 220

<210> 117
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 117
 Phe Thr His Ser Phe Ile Leu Glu His Ala Phe Ser Leu Leu Ile Thr

1	5	10	15
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Leu Pro Val Ser Ser Trp Ala Ala Asn Asn
 20 25

<210> 118
 <211> 384
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (187)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 118
 Met Met Ile Gln Trp Asn Gly Pro Lys Thr Ser Ile Ser Glu Lys Ala
 1 5 10 15
 Arg Gly Leu Xaa Leu Thr Tyr Ser Leu Arg Asp Arg Glu Arg Gly Gly
 20 25 30
 Gly Arg Ala Gln Ile Gly Val Val Asp Asp Glu Ala Lys Ala Pro Asp
 35 40 45
 Leu Met Gln Ile Met Glu Ala Val Leu Gly Arg Arg Val Gly Xaa Leu
 50 55 60
 Arg Xaa Ala Thr Pro Ser Lys Asp Ile Asn Gln Leu Gln Lys Ala Asn
 65 70 75 80
 Val Arg Leu Tyr His Val Tyr Glu Lys Gly Lys Asp Leu Val Val Leu
 85 90 95
 Glu Leu Ala Thr Pro Pro Leu Thr Gln Asp Leu Leu Gln Glu Glu Asp
 100 105 110
 Phe Tyr Ile Leu Asp Gln Gly Gly Phe Lys Ile Tyr Val Trp Gln Gly
 115 120 125
 Arg Met Ser Ser Leu Gln Glu Arg Lys Ala Ala Phe Ser Arg Ala Val
 130 135 140
 Gly Phe Ile Gln Ala Lys Gly Tyr Pro Thr Tyr Thr Asn Val Glu Val
 145 150 155 160

Val Asn Asp Gly Ala Glu Ser Ala Ala Phe Lys Gln Leu Phe Arg Thr
 165 170 175
 Trp Ser Glu Lys Arg Arg Arg Asn Gln Lys Xaa Gly Gly Arg Asp Lys
 180 185 190
 Ser Ile His Val Lys Leu Asp Val Gly Lys Leu His Thr Gln Pro Lys
 195 200 205
 Leu Ala Ala Gln Leu Arg Met Val Asp Asp Gly Ser Gly Lys Val Glu
 210 215 220
 Val Trp Cys Ile Gln Asp Leu His Arg Gln Pro Val Asp Pro Lys Arg
 225 230 235 240
 His Gly Gln Leu Cys Ala Gly Asn Cys Tyr Leu Val Leu Tyr Thr Tyr
 245 250 255
 Gln Arg Leu Gly Arg Val Gln Tyr Ile Leu Tyr Leu Trp Gln Gly His
 260 265 270
 Gln Ala Thr Ala Asp Glu Ile Glu Ala Leu Asn Ser Asn Ala Glu Glu
 275 280 285
 Leu Asp Val Met Tyr Gly Gly Val Leu Val Gln Glu His Val Thr Met
 290 295 300
 Gly Ser Glu Pro Pro His Phe Leu Ala Ile Phe Gln Gly Gln Leu Val
 305 310 315 320
 Ile Phe Gln Glu Arg Ala Gly His His Gly Lys Gly Gln Ser Ala Ser
 325 330 335
 Thr Thr Arg Leu Phe Gln Val Gln Gly Thr Asp Ser His Asn Thr Arg
 340 345 350
 Thr Met Glu Val Pro Ala Arg Ala Ser Ser Leu Asn Ser Ser Asp Ile
 355 360 365
 Phe Leu Leu Val Thr Ala Ser Val Cys Tyr Leu Trp Phe Gly Lys Gly
 370 375 380

<210> 119

<211> 117

<212> PRT

<213> Homo sapiens

<400> 119

Met Leu Ser Lys Ala His Gly Cys Lys Thr Ala Leu Ser Leu Gly Arg
 1 5 10 15
 Cys Pro Lys Ile Arg Glu Glu Cys Glu Phe Gln Glu Arg Asp Val Cys
 20 25 30
 Thr Lys Asp Arg Gln Cys Gln Asp Asn Lys Lys Cys Cys Val Phe Ser
 35 40 45
 Cys Gly Lys Lys Cys Leu Asp Leu Lys Gln Asp Val Cys Glu Met Pro

50 55 60

Lys Glu Thr Gly Pro Cys Leu Ala Tyr Phe Leu His Trp Trp Tyr Asp
65 70 75 80

Lys Lys Asp Asn Thr Cys Ser Met Phe Val Tyr Gly Gly Cys Gln Gly
85 90 95

Asn Asn Asn Asn Phe Gln Ser Lys Ala Asn Cys Leu Asn Thr Cys Lys
100 105 110

Asn Lys Arg Phe Pro
115

<210> 120
<211> 102
<212> PRT
<213> Homo sapiens

<400> 120

Arg Cys Pro Lys Ile Arg Glu Glu Cys Glu Phe Gln Glu Arg Asp Val
1 5 10 15

Cys Thr Lys Asp Arg Gln Cys Gln Asp Asn Lys Lys Cys Cys Val Phe
20 25 30

Ser Cys Gly Lys Lys Cys Leu Asp Leu Lys Gln Asp Val Cys Glu Met
35 40 45

Pro Lys Glu Thr Gly Pro Cys Leu Ala Tyr Phe Leu His Trp Trp Tyr
50 55 60

Asp Lys Lys Asp Asn Thr Cys Ser Met Phe Val Tyr Gly Gly Cys Gln
65 70 75 80

Gly Asn Asn Asn Asn Phe Gln Ser Lys Ala Asn Cys Leu Asn Thr Cys
85 90 95

Lys Asn Lys Arg Phe Pro
100

<210> 121
<211> 354
<212> DNA
<213> Homo sapiens

<400> 121

atgctctcta aggcacacgg gtgtaaaacc gctctttccc tagggagatg tcccaaatc 60
agagaagaat gtgaattcca agaaagggat gtgtgtacaa aggacagaca atgccaggac 120
aacaagaagt gttgtgtctt cagctgcgga aaaaaatggt tagatctcaa acaagatgta 180
tgcgaaatgc caaaagaaac tggcccctgc ctggcttatt ttcttcattg gtggtatgac 240
aagaaagata atacttgctc catgtttgtc tatggtggct gccagggaaa caataacaac 300
ttccaatcca aagccaactg cctgaacacc tgcaagaata aacgctttcc ctga 354